WHAT IS CLAIMED IS:

1. A battery pack with a remaining battery power calculating function, comprising:

a secondary battery connected between a plus side terminal and a minus side terminal;

a protective circuit for protecting the secondary battery from overcharge and over-discharge;

a circuit operating with the minus side terminal as the reference to calculate a remaining capacity of the secondary battery;

an N-channel MOS transistor for controlling charge and discharge of the secondary battery upon receiving a signal from the protective circuit in order to protect the secondary battery; and

a level shifter circuit provided for a level shift of an electric potential of the minus side terminal to a negative electrode side electric potential of the secondary battery.

2. A battery pack with a remaining battery power calculating function according to Claim 1, wherein the circuit for calculating the remaining capacity of the secondary battery monitors a charge current and a discharge current of the secondary battery to transmit the monitored results to a microcomputer external to the battery pack, and receives data of remaining battery power calculated by the microcomputer.

3. A battery pack with remaining battery power calculating function according to claim 2, wherein the secondary battery is a lithium ion secondary battery.

4. A battery pack with remaining battery power calculating function according to claim 2, wherein the secondary battery is a lithium ion secondary battery.

5. A battery pack with remaining battery power calculating function according to claim 1, wherein the secondary battery is a lithium ion secondary battery.

6. A battery pack with remaining battery power calculating function according to claim 1, wherein the secondary battery is a lithium ion secondary battery.